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[1. N133-147: Alternative Materials for Tactical Vehicle Wheeled Hubs](#)

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: The MTRV is the current medium tactical cargo vehicle for the Marine Corps. Efforts have been made to reduce the weight of the vehicle, to accommodate extra cargo, to accommodate up-armor kits, and to improve vehicle handling. One area of development is an innovative, advanced material system to replace the currently used mild to medium strength steel in the wheel hubs of the Medium Tac ...

SBIR Department of DefenseNavy

[2. N133-148: Adaptive Diesel Engine Control](#)

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: The objective is to reduce the volume of fuel consumed by the MTRV engine during mission operations by 15-25% over current fuel consumption while increasing the power output of the engine by 5-10% over current engine rated capability. These goals will be reached thru modification of the Caterpillar C12 or similar engine enabling full and independent control of diesel engine components ...

SBIR Department of DefenseNavy

[3. N133-149: Development of On-board Weight and Center of Gravity Measurement System for Tactical Vehicles](#)

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: The objective of this effort is to develop an innovative, cost-effective and reliable on-board weight and center of gravity (W & CG) measurement system for tactical vehicles. DESCRIPTION: Tactical wheeled vehicles routinely carry payloads of varied configurations to support the operating forces"diverse missions. To ensure safety while maximizing payload capacity, it is imperative th ...

SBIR Department of DefenseNavy

[4. SB133-001: Efficient Quantum Frequency Conversion for Advanced Optical Communications](#)

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Conceive and develop methods and techniques for substantially improving the performance of optical signal processing in nonlinear optical devices. Of particular interest is developing technologies suitable for quantum information processing such as near-100%-efficient quantum frequency conversion.

SBIR Department of DefenseDefense Advanced Research Projects Agency

5. [SB133-002: Defense Against National Vulnerabilities in Public Data](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

This topic is eligible for the DARPA Direct to PHASE II Pilot Program. Please see section 7.0 of the DARPA instructions for additional information. To be eligible, you must submit documentation which demonstrates that Phase I feasibility (as described in PHASE I below). Offerors must choose between submitting a PHASE I proposal OR a Direct to Phase II proposal, and may not submit both for the same topic. OBJECTIVE: Investigate the national security threat posed by public data available either for purchase or through open sources.

SBIR Department of Defense Defense Advanced Research Projects Agency

6. [SB133-003: Electronic Component Fingerprinting to Determine Manufacturing Origin](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

This topic is eligible for the DARPA Direct to PHASE II Pilot Program. Please see section 7.0 of the DARPA instructions for additional information. To be eligible, you must submit documentation which demonstrates that PHASE I feasibility (as described in PHASE I below). Offerors must choose between submitting a PHASE I proposal OR a Direct to PHASE II proposal, and may not submit both for the same topic. OBJECTIVE: Use measurable electronic and/or physical characteristics to identify the specific fabrication facility of origin of a given electronic component.

SBIR Department of Defense Defense Advanced Research Projects Agency

7. [SB133-004: Hybrid Off-Road Motorcycle](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

This topic is eligible for the DARPA Direct to Phase II Pilot Program. Please see section 7.0 of the DARPA instructions for additional information. To be eligible, you must submit documentation which demonstrates Phase I feasibility (as described in PHASE I below). Offerors must choose between submitting a Phase I proposal OR a Direct to Phase II proposal, and may not submit both for the same topic.

SBIR Department of Defense Defense Advanced Research Projects Agency

8. [SB133-005: Manufacturing and Strength Improvement for Thick Carbon-Carbon Laminates](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

This topic is eligible for the DARPA Direct to PHASE II Pilot Program. Please see section 7.0 of the DARPA instructions for additional information. To be eligible, you must submit documentation which demonstrates that PHASE I feasibility (as described in PHASE I below). Offerors must choose between submitting a PHASE I proposal OR a Direct to Phase II proposal, and may not submit both for the same topic. OBJECTIVE: Develop robust

manufacturing and strength improvement concepts for 2D laminate hot load bearing carbon-carbon structures.

SBIR Department of DefenseDefense Advanced Research Projects Agency

9. [OSD13-C01: Integrated Computational Materials Engineering in Multiphysics Software](#)

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: The objective of this research is to demonstrate a spatially-dependent calculation of detailed microstructural evolution (e.g., grain structure, texture, precipitation kinetics, phase transformations, etc.) in the modeling of processing of a structural material ultimately providing or enhancing commercial multiphysics software (e.g., general multiphysics or specialized for welding, for ...

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10. [OSD13-C02: A Semantic Technology for Materials Design and Development](#)

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop and demonstrate the foundational elements required to create a semantic technology for materials design and development. DESCRIPTION: Several foundational elements required to achieve Sir Tim Berners-Lee's vision for a semantic web are in place and available to the materials community. The semantic web, sometimes referred to as the web-of-data, focuses on ontologies as well ...

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